

CLAIMS

1. A device for use in applying impulse therapy to a limb of the human body comprising an inflatable bladder, means for providing intermittent pulses of fluid to the bladder in accordance with a pre-determined timed sequence of pressure hold and pressure release, means for securing the bladder around the limb of the human body to apply the bladder to the area to be treated, characterised in that the bladder is provided with a volume-reducing internal component which acts to dissipate the flow of fluid into the bladder with accompanying reduction in fluid flow rates and noise generated by the fluid flow during pressurisation of the bladder.
2. A device as claimed in Claim 1 wherein the internal component is of foam material.
3. A device as claimed in Claim 1 wherein the internal component is a gel.
4. A device as claimed in Claim 1 where in the internal component is a fluid reservoir.
5. A device as claimed in Claim 2 wherein the foam is attached to one or both walls of the bladder.
6. A device as claimed in Claim 5 wherein the foam is provided with air flow channels.

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7. A device for use in applying impulse therapy to a limb of the human body comprising a flexible pad having an inflatable interior, means for providing intermittent impulses of fluid to the inflatable interior in accordance with a predetermined timed sequence of pressure hold and pressure release,
5 means for securing the flexible pad around the limb of the human body to apply the pad to the area to be treated, characterised in that the inflatable interior is filled or partially filled with a cellular component providing means for reducing fluid flow rates and noise during pulsed pressurisation of said inflatable interior of the flexible pad.
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8. A device as claimed in claim 7 wherein the cellular component acting as a sound absorbing media, is formed during construction of the bladder by an injection moulding process.
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9. A device as claimed in claim 7 when the cellular component is a foam material.
10. A device for use in applying impulse therapy to a limb of the human body comprising a flexible pad having an inflatable chamber, means for providing
20 intermittent pulses of fluid to the inflatable chamber in accordance with a predetermined timed sequence of pressure hold and pressure release, means for securing the flexible pad around the limb of the human body to apply the flexible pad to the area to be treated, characterised in that the inflatable chamber is provided with means for varying the internal

volume of the chamber thereby to control fluid flow rates and generation of noise during pressurisation of the chamber.

- 5 11. A device as claimed in claim 10 wherein said means for varying the internal volume of the chamber is a gel or liquid.
- 10 12. A device for use in applying impulse therapy to a limb of the human body comprising a flexible pad having an internal chamber adapted to inflate when supplied with fluid at a predetermined pressure, adjustable securing means for securing the pad around the limb of a human body at an adjustable pressure to apply the inflatable chamber to the area to be treated, and means within the chamber adapted to maintain the required pressurisation of the chamber with reduced rates of fluid flow and applied adjustable pressure of the pad against the limb by said securing means.

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